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# NOTICE OF ALLOWANCE AND FEE(S) DUE

37490 7590 06/15/2009 Trellis Intellectual Property Law Group, PC 1900 EMBARCADERO ROAD SUITE 109

PALO ALTO, CA 94303

EXAMINER				
PARK, JEONG S				
ART UNIT	PAPER NUMBER			
2454				

DATE MAILED: 06/15/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/766,607	01/27/2004	Hong Xu	100101-000200US	3423

TITLE OF INVENTION: SEQUENCE NUMBER RESETTING FOR SYNCHRONIZING TRANSFERS IN A DIGITAL NETWORK

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	09/15/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	ng the Patent, advance on herwise in Block 1, by (a	rders and notification of r a) specifying a new corres	naintenance fees wil spondence address; a	ll be n and/or	nailed to the current (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
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PALO ALTO, C	A 94303						(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	1	ATTOR	NEY DOCKET NO.	CONFIRMATION NO.
10/766,607	01/27/2004	•	Hong Xu	•	100	101-000200US	3423
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nonprovisional	NO	\$1510	\$0	\$0		\$1510	09/15/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS				
PARK, J	EONG S	2454	709-206000				
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PLEASE NOTE: Uni recordation as set fort (A) NAME OF ASSI	less an assignee is ident h in 37 CFR 3.11. Comp GNEE		(B) RESIDENCE: (CITY	atent. If an assigned assignment. and STATE OR CO	UNTI	RY)	ocument has been filed for
4a. The following fee(s)  Issue Fee Publication Fee (N Advance Order	vo small entity discount p		b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	is attac	hed.	
5. Change in Entity Sta	tus (from status indicated is SMALL ENTITY statu		b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than t Office.	he applicant; a regist	ered at	torney or agent; or th	e assignee or other party in
Authorized Signature				Date			
Typed or printed name Registration No.							
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OMB 0651-0033 PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



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10/766,607	01/27/2004 Hong Xu		100101-000200US	3423
37490 75	90 06/15/2009		EXAM	UNER
Trellis Intellectua	al Property Law Grou	ip, PC	PARK, J	EONG S
1900 EMBARCAI	DERO ROAD		ART UNIT	PAPER NUMBER
SUITE 109 PALO ALTO, CA 94303			2454 DATE MAII ED: 06/15/200	9

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1033 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1033 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)	
10/766,607	XU, HONG	
Examiner	Art Unit	
IFONC C DARK	2454	

	ONG S. PARK   2454	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.313.	on the cover sheet with the correspondence (REMAINS) CLOSED in this application. If not in their appropriate communication will be mailed in IS. This application is subject to withdrawal from IMPEP 1308.  2.  35 U.S.C. § 119(a)-(d) or (f).  an received.  an received in Application No	cluded due course. THIS issue at the initiativ
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM		ne requirements
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>		or NOTICE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus		
(a) ☐ including changes required by the Notice of Draftspers	Patent Drawing Review ( PTO-948) attached	
<ol> <li>hereto or 2) ☐ to Paper No./Mail Date</li> </ol>		
<ul><li>(b) including changes required by the attached Examiner's Paper No./Mail Date</li></ul>	endment / Comment or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in t		ot the back) of
DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT		ed. Note the
Attachment(s)  I. ⊠ Notice of References Cited (PTO-892)	5. Notice of Informal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary (PTO-413),	
B. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	Paper No./Mail Date 7.	
I. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. Examiner's Statement of Reasons fo	r Allowance
	9. Other	
	/Nathan J. Flynn/	
	Supervisory Patent Examiner, Art Unit	2454

Application/Control Number: 10/766,607

Art Unit: 2454

# REASONS FOR ALLOWANCE

Claims 1-10, 17-22 and 24-27 will be allowed.

2. The following is an examiner's statement of reasons for allowance:

The prior art of record does not provide for nor suggests providing for as follows:

A method for synchronizing transfer of sequence numbers over a digital network, wherein an expected sequence number is compared to a received sequence number to determine if the received sequence number is acceptable, wherein a sequence number is acceptable if the sequence number is within a group of sequence numbers defined with respect to the expected sequence number, the method comprising:

determining first and second sequence numbers for communication from a sender, the first and second sequence numbers being in a range from a minimum value to a maximum value, wherein a value difference between the first and second sequence numbers is greater than one, and wherein neither the first sequence number nor the second sequence number has a value of one;

sending the first and second sequence numbers to a receiver, wherein the receiver includes an unknown expected sequence number, wherein the first and second sequence numbers have values such that a subsequently sent starting sequence number is guaranteed to be acceptable by the receiver regardless of a value of the unknown expected sequence number in the receiver: and

sending the starting sequence number to cause a resetting of the receiver to the starting sequence number, the starting sequence number being equal to one (see, e.g., specification, pages 7-9, paragraphs [0023]-[0034]).

Application/Control Number: 10/766,607

Art Unit: 2454

The closest prior art (Milliken Patent No. 6,978,384) teaches an approach for checking sequence numbers using a sliding window (Milliken, Abstract). Milliken sends first and second sequence numbers to a sequence number checker for processing via multiple level bitmaps.

However, Milliken does not disclose or suggest a value difference between these sequence numbers that is "greater than one," while the starting sequence number sent after the first and second sequence numbers is "equal to one," as presently claimed. In contrast, the sequence number values in Milliken are "initialized to 0 when an SA is first established, and set to 1 when the first packet under the ESA is sent" (Milliken, col. 7, lines 65-67), giving a value difference of exactly one. Thus, Milliken does not disclose or suggest sequence numbers having value differences greater than one for receiver resetting, along with a starting sequence number having a value of one, as presently claimed. Further, Milliken merely uses a received sequence number to adjust the sliding window for sequence number checking, and is actually not concerned with resetting at a receiver.

For these reasons, in conjunction with the other limitations of the independent claim, puts this case in condition for allowance.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

# Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEONG S. PARK whose telephone number is (571)270-1597. The examiner can normally be reached on Monday through Friday 7:00 - 3:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on 571-272-1915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. S. P./ Examiner, Art Unit 2454 June 2. 2009

/Nathan J. Flynn/

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Art Unit: 2454

Supervisory Patent Examiner, Art Unit 2454